

POWERSTAR® ENVIROSTAR GREEN® ALL PURPOSE NEUTRALIZER

Concentrated "green" neutralizing solution
developed for use on concrete and stone flooring

ADVANCED FORMULATION CONTAINING

- NO phosphates
- NO 2-butoxyethanol (butyl)
- NO VOC's
- NO alkyl phenol ethoxylate surfactants
- NO environmentally toxic preservatives
- NO added fragrances

FEATURES

- Increases adhesion of coatings to floors where alkalinity is a problem
- Concentrated for economical use
- Easy application
- Totally biodegradable



Recognized for Safer Chemistry
www.epa.gov/dfe

RECOMMENDED FLOOR SURFACES

Hard floors (stone, concrete) where excessive alkalinity may cause adhesion problems. Caution: Use on some polished stone floors (marble, travertine, etc.) may result in etching and loss of gloss.

NOTE: Test on an inconspicuous area first for any etching effect.

Description:	All Purpose Neutralizer
Appearance:	Clear, colorless
Fragrance:	None added
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
pH (undiluted):	2.2 ± 0.5 ASTM E70-97
Density:	8.7 lb per gal @ 68°F 1.05 kg per liter @ 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

PRECAUTIONS

Keep out of reach of children. Keep container sealed when not in use. Avoid freezing. If frozen, allow to return to room temperature slowly and mix thoroughly before using.

ORDERING INFORMATION

Product #338GL5:	2 x 2.5 gallons per case (2 x 9.5 liters)
Product #338DR5:	55 gallons

DIRECTIONS FOR USE

1. Mix PowerStar EnviroStar Green All Purpose Neutralizer in mop bucket or automatic scrubber according to the following dilution ratio:

Hard Floors

1:10 13 US oz per gal water

2. Apply liberally to floor and allow to soak for 10 minutes. Pick up residue with automatic scrubber.
3. Using automatic scrubber, flood rinse floor with clean, cold water. Pick up residue with automatic scrubber.
4. Allow to dry.

POWERSTAR ENVIROSTAR GREEN ALL PURPOSE NEUTRALIZER

LAST REVISION DATE: 11/11/09
MANUFACTURER: Amano Pioneer Eclipse® Corp.
 Sparta, NC 28675 Phone: 1-336-372-8080
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire,
 Exposure or Accident **CALL CHEMTREC - Day**
or Night 1-800-424-9300 Toll Free in the
 Continental US **483-7616** in DISTRICT OF
 COLUMBIA. For calls originating outside the US:
 Call Collect **1-202-483-7616** Washington, DC.

SECTION I: GENERAL INFORMATION

PRODUCT NAME: PowerStar® EnviroStar Green®
 All Purpose Neutralizer
PRODUCT #: 338
PRODUCT TYPE: All purpose neutralizer
PRECAUTIONS: Possible skin and eye irritant.
 Keep container sealed when not in use. Keep out
 of reach of children.

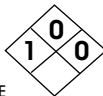
HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

NFPA HAZARD RATINGS

4-EXTREME 3-HIGH 2-MODERATE
 1-SLIGHT 0-INSIGNIFICANT



SECTION II: INGREDIENTS

INGREDIENT: Water
CAS#: 7732-18-5
%: 70-85
OSHA PEL: N/A
ACGIH TLV: N/A
LD₅₀ SPECIES & ROUTE: N/A
INGREDIENT: Citric Acid
CAS#: 77-92-9
%: 10-15
OSHA PEL: N/E
ACGIH TLV: N/E
LD₅₀ SPECIES & ROUTE: 11,700 mg/kg rat, oral
INGREDIENT: Biodegradable Anionic Surfactant
CAS#: 5324-84-5
%: 5-10
OSHA PEL: N/E
ACGIH TLV: N/E
LD₅₀ SPECIES & ROUTE: >5,000 mg/kg rat, oral

N/E = Not Established, N/L = Not Listed
 N/A = Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Clear, colorless
PHYSICAL STATE: Liquid
pH: 2.2 ± 0.5
BOILING POINT: 100°C / 212°F
EVAPORATION RATE: Less than water
FREEZING POINT: 0°C / 32°F
VAPOR DENSITY: Greater than air
VOLATILE BY WEIGHT: 89 ± 0.5 %
VAPOR PRESSURE: Less than water
DENSITY: 8.7 lb per gal @ 68°F
 1.05 kg per liter @ 20°C
SOLUBILITY IN WATER: Miscible

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-combustible
EXPLOSIVE LIMITS:
 LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: None
HAZARDOUS COMBUSTIBLE PRODUCTS: None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Materials can splatter above 100°C / 212°F.

SECTION V: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: Irritating to eyes. For eye contact,
 flush with a large amount of water for at least
 15 minutes. See a physician if irritation persists.
SKIN: Irritating to skin upon repeated or
 prolonged contact. For skin contact, wash
 affected areas with soap and water.
INHALATION: Vapor or mist may cause
 irritation of the eyes, nose, throat and lungs. For
 overexposure, move subject to fresh air.
INGESTION: May cause irritation to mouth,
 esophagus and stomach. If ingested, drink
 several glasses of water and do not induce
 vomiting. Seek medical attention.
CHRONIC EFFECTS AND MEDICAL CONDITIONS
AGGRAVATED BY OVEREXPOSURE: Prolonged or
 repeated contact can cause drying, defatting and
 dermatitis to skin.
CARCINOGEN: Non-carcinogenic
REPRODUCTIVE EFFECTS: N/E
TERATOGENICITY: N/E
MUTAGENICITY: N/E
THRESHOLD LIMIT VALUE: See Section II.

SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material
 (e.g. sand, earth) and dispose of as waste
 material in accordance with local, state and
 federal regulations.
LARGE SPILLS: Keep spectators away. Floors
 may be slippery; use care to avoid falling. Dike
 and contain spill with inert material (e.g. sand,
 earth). Transfer liquid to containers for recovery
 or disposal and solid diking material to separate
 containers for disposal. Keep spills and cleaning
 runoff out of sewers and open bodies of water.
WASTE DISPOSAL: Dispose of as waste
 material in accordance with local, state, and
 federal regulations.

SECTION VIII: SPECIAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)
EYES: None required under normal conditions of
 use. Safety glasses recommended.
SKIN: If prolonged or repeated contact is
 possible, chemical-resistant clothing (e.g., rubber
 gloves) is recommended.
RESPIRATORY: No respiratory protection is
 required if ventilation is adequate.

ENGINEERING CONTROLS: Good general room
 ventilation is expected to be adequate. Local
 exhaust ventilation (e.g., fans) may be necessary
 when general ventilation does not keep airborne
 concentrations below any exposure limits.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE:
 Storage temperature (MAX. 60°C / 140°F)
 (MIN. 1°C / 34°F)
OTHER PRECAUTIONS: Keep from freezing;
 product may coagulate.

SECTION X: ADDITIONAL INFORMATION

Neither this data sheet nor any statement
 contained herein grants or extends any license,
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This MSDS has been provided to
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 HAZARD COMMUNICATION STANDARD
 (29CFR1910.1200).

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 DO NOT DISCARD***
 **PLEASE ROUTE TO COMPANY SAFETY
 OFFICER**

